

**We claim:**

1           1.       Lubricants for drilling fluid systems comprising a dispersion  
2 comprising at least one fatty acid soap comprising at least one alkali metal having a  
3 valence of 1, said fatty acid soap being dispersed in a carrier fluid.

1           2.       The lubricants of claim 1 wherein said alkali metal is selected from the  
2 group consisting of lithium, sodium, potassium, rubidium, cesium, and combinations  
3 thereof.

1           3.       The lubricants of claim 1 wherein said alkali metal are selected from  
2 the group consisting of lithium, sodium, potassium, and combinations thereof.

1           4.       The lubricants of claim 1 wherein said fatty acid soap comprises  
2 monocarboxylic acid selected from the group consisting of saturated monocarboxylic  
3 acids and unsaturated monocarboxylic acids having the following general structure:



5 wherein R is selected from the group consisting of alkyl groups and alkenyl groups  
6 having from about 10 to about 28 carbon atoms, said alkenyl groups comprising from  
7 about 0 to about 4 unsaturated carbon-carbon bonds.

1           5.       The lubricants of claim 2 wherein said fatty acid soap comprises  
2 monocarboxylic acid selected from the group consisting of saturated monocarboxylic  
3 acids and unsaturated monocarboxylic acids having the following general structure:



5 wherein R is selected from the group consisting of alkyl groups and alkenyl groups  
6 having from about 10 to about 28 carbon atoms, said alkenyl groups comprising from  
7 about 0 to about 4 unsaturated carbon-carbon bonds.

1           6.       The lubricants of claim 3 wherein said fatty acid soap comprises

2 monocarboxylic acid selected from the group consisting of saturated monocarboxylic  
3 acids and unsaturated monocarboxylic acids having the following general structure:



5 wherein R is selected from the group consisting of alkyl groups and alkenyl groups  
6 having from about 10 to about 28 carbon atoms, said alkenyl groups comprising from  
7 about 0 to about 4 unsaturated carbon-carbon bonds.

1 7. The lubricants of claim 1 wherein said fatty acid soap comprises  
2 monocarboxylic acid selected from the group consisting of saturated monocarboxylic  
3 acid and unsaturated monocarboxylic acid having the following general structure:



5 wherein R is selected from the group consisting of alkyl groups and alkenyl groups  
6 having from about 16 to about 24 carbon atoms, and said alkyl groups comprise from  
7 about 0 to about 2 unsaturated carbon-carbon bonds.

1 8. The lubricants of claim 2 wherein said fatty acid soap comprises  
2 monocarboxylic acid selected from the group consisting of saturated monocarboxylic  
3 acid and unsaturated monocarboxylic acid having the following general structure:



5 wherein R is selected from the group consisting of alkyl groups and alkenyl groups  
6 having from about 16 to about 24 carbon atoms, and said alkyl groups comprise from  
7 about 0 to about 2 unsaturated carbon-carbon bonds.

1 9. The lubricants of claim 3 wherein said fatty acid soap comprises  
2 monocarboxylic acid selected from the group consisting of saturated monocarboxylic  
3 acid and unsaturated monocarboxylic acid having the following general structure:



5 wherein R is selected from the group consisting of alkyl groups and alkenyl groups  
6 having from about 16 to about 24 carbon atoms, and said alkyl groups comprise from  
7 about 0 to about 2 unsaturated carbon-carbon bonds.

1 10. The lubricants of claim 1 wherein said fatty acid is derived from a  
2 material selected from the group consisting of animal fats and vegetable fats.

1 11. The lubricants of claim 2 wherein said fatty acid is derived from a  
2 material selected from the group consisting of animal fats and vegetable fats.

1 12. The lubricants of claim 3 wherein said fatty acid is derived from a  
2 material selected from the group consisting of animal fats and vegetable fats.

1 13. The lubricants of claim 1 wherein said fatty acid soap comprises a fatty  
2 acid selected from the group consisting of tall oil fatty acids, stearic acids, palmitic  
3 acids, myristic acids, oleic acids, and fatty acids derived from castor oil, coconut oil,  
4 cotton-seed oil, rice oil, soybean oil, lard oil, rosin acids, tall oils, and combinations  
5 thereof.

1 14. The lubricants of claim 2 wherein said fatty acid soap comprises a fatty  
2 acid selected from the group consisting of tall oil fatty acids, stearic acids, myristic  
3 acids, palmitic acids, oleic acids, and fatty acids derived from castor oil, coconut oil,  
4 cotton-seed oil, rice oil, soybean oil, lard oil, rosin acids, tall oils, and combinations  
5 thereof.

1 15. The lubricants of claim 3 wherein said fatty acid soap comprises a fatty  
2 acid selected from the group consisting of tall oil fatty acids, stearic acids, palmitic  
3 acids, myristic acids, oleic acids, and fatty acids derived from castor oil, coconut oil,  
4 cotton-seed oil, rice oil, soybean oil, lard oil, rosin acids, tall oils, and combinations  
5 thereof.

1           16.     The lubricants of claim 1 wherein said fatty acid of said fatty acid soap  
2 is selected from the group consisting of stearic acid, palmitic acid, and myristic acids.

1           17.     The lubricants of claim 2 wherein said fatty acid of said fatty acid soap  
2 is selected from the group consisting of stearic acid, palmitic acid, and myristic acids.

1           18.     The lubricants of claim 3 wherein said fatty acid of said fatty acid soap  
2 is selected from the group consisting of stearic acid, palmitic acid, and myristic acids.

1           19.     The lubricants of claim 1 wherein said carrier comprises one or more  
2 glycols.

1           20.     The lubricants of claim 18 wherein said carrier comprises one or more  
2 glycols.

1           21.     The lubricants of claim 1 wherein said carrier comprises one or more  
2 water soluble glycol ether.

1           22.     The lubricants of claim 2 wherein said carrier comprises one or more  
2 water soluble glycol ether.

1           23.     The lubricants of claim 3 wherein said carrier comprises one or more  
2 water soluble glycol ether.

1           24.     The lubricants of claim 18 wherein said carrier comprises one or more  
2 water soluble glycol ether.

1           25.     The lubricants of claim 21 wherein said water soluble glycol ether is  
2 selected from the group consisting of propylene glycol ethers, polyethylene glycol  
3 ethers and polypropylene glycol ethers having a number average molecular weight of  
4 about 2000 or less, and combinations thereof.

1           26.     The lubricants of claim 25 wherein said number average molecular  
2 weight is about 1000 or less.

1           27.     The lubricants of claim 22 wherein said water soluble glycol ether is  
2     selected from the group consisting of propylene glycol ethers, polyethylene glycol  
3     ethers and polypropylene glycol ethers having a number average molecular weight of  
4     about 2000 or less, and combinations thereof.

1           28.     The lubricants of claim 27 wherein said number average molecular  
2     weight is about 1000 or less.

1           29.     The lubricants of claim 23 wherein said water soluble glycol ether is  
2     selected from the group consisting of propylene glycol ethers, polyethylene glycol  
3     ethers and polypropylene glycol ethers having a number average molecular weight of  
4     about 2000 or less, and combinations thereof.

1           30.     The lubricants of claim 29 wherein said number average molecular  
2     weight is about 1000 or less.

1           31.     The lubricants of claim 24 wherein said water soluble glycol ether is  
2     selected from the group consisting of propylene glycol ethers, polyethylene glycol  
3     ethers and polypropylene glycol ethers having a number average molecular weight of  
4     about 2000 or less, and combinations thereof.

1           32.     The lubricants of claim 31 wherein said number average molecular  
2     weight is about 1000 or less.

1           33.     Lubricants for drilling fluid systems comprising a dispersion  
2     comprising at least one fatty acid soap comprising lithium, said fatty acid soap being  
3     dispersed in a carrier fluid.

1           34.     The lubricants of claim 33 wherein said fatty acid soap comprises  
2     monocarboxylic acid selected from the group consisting of saturated monocarboxylic  
3     acids and unsaturated monocarboxylic acids having the following general structure:

4                   R-COOH

5   wherein R is selected from the group consisting of alkyl groups and alkenyl groups  
6   having from about 10 to about 28 carbon atoms, said alkenyl groups comprising from  
7   about 0 to about 4 unsaturated carbon-carbon bonds.

1           35.    The lubricants of claim 33 wherein said fatty acid soap comprises  
2   monocarboxylic acid selected from the group consisting of saturated monocarboxylic  
3   acid and unsaturated monocarboxylic acid having the following general structure:

4                   R-COOH

5   wherein R is selected from the group consisting of alkyl groups and alkenyl groups  
6   having from about 16 to about 24 carbon atoms, and said alkyl groups comprise from  
7   about 0 to about 2 unsaturated carbon-carbon bonds.

1           36.    The lubricants of claim 33 wherein said fatty acid soap comprises fatty  
2   acid derived from a material selected from the group consisting of animal fats and  
3   vegetable fats.

1           37.    The lubricants of claim 33 wherein said fatty acid soap comprises a  
2   fatty acid selected from the group consisting of tall oil fatty acids, stearic acids,  
3   palmitic acids, oleic acids, and fatty acids derived from castor oil, coconut oil, cotton-  
4   seed oil, rice oil, soybean oil, lard oil, rosin acids, tall oils, and combinations thereof.

1           38.    The lubricants of claim 33 wherein said fatty acid of said fatty acid  
2   soap is selected from the group consisting of stearic acid, palmitic acid, and myristic  
3   acid.

1           39.    The lubricants of claim 33 wherein said carrier comprises one or more  
2   glycols.

1           40.    The lubricants of claim 38 wherein said carrier comprises one or more

2 glycols.

1 41. The lubricants of claim 33 wherein said carrier comprises one or more  
2 water soluble glycol ether.

1 42. The lubricants of claim 41 wherein said water soluble glycol ether is  
2 selected from the group consisting of propylene glycol ethers, polyethylene glycol  
3 ethers and polypropylene glycol ethers having a number average molecular weight of  
4 about 2000 or less, and combinations thereof.

1 43. The lubricants of claim 42 wherein said number average molecular  
2 weight is about 1000 or less.

1 44. The lubricants of claim 38 wherein said carrier comprises one or more  
2 water soluble glycol ether.

1 45. The lubricants of claim 44 wherein said water soluble glycol ether is  
2 selected from the group consisting of propylene glycol ethers, polyethylene glycol  
3 ethers and polypropylene glycol ethers having a number average molecular weight of  
4 about 2000 or less, and combinations thereof.

1 46. The lubricants of claim 45 wherein said number average molecular  
2 weight is about 1000 or less.

1 47. Lubricants for drilling fluid systems comprising a dispersion  
2 comprising at least one alkali metal having a valence of 1 and stearate dispersed in a  
3 carrier fluid.

1 48. The lubricants of claim 47 wherein said alkali metal is selected from  
2 the group consisting of lithium, sodium, potassium, rubidium, cesium, and  
3 combinations thereof.

1 49. The lubricants of claim 47 wherein said alkali metal are selected from

2 the group consisting of lithium, sodium, potassium, and combinations thereof.

1 50. The lubricants of claim 47 wherein said carrier comprises one or more  
2 glycols.

1 51. The lubricants of claim 49 wherein said carrier comprises one or more  
2 glycols.

1 52. The lubricants of claim 47 wherein said carrier comprises one or more  
2 water soluble glycol ether.

1 53. The lubricants of claim 52 wherein said water soluble glycol ether is  
2 selected from the group consisting of propylene glycol ethers, polyethylene glycol  
3 ethers and polypropylene glycol ethers having a number average molecular weight of  
4 about 2000 or less, and combinations thereof.

1 54. The lubricants of claim 53 wherein said number average molecular  
2 weight is about 1000 or less.

1 55. The lubricants of claim 49 wherein said carrier comprises one or more  
2 water soluble glycol ether.

1 56. The lubricants of claim 55 wherein said water soluble glycol ether is  
2 selected from the group consisting of propylene glycol ethers, polyethylene glycol  
3 ethers and polypropylene glycol ethers having a number average molecular weight of  
4 about 2000 or less, and combinations thereof.

1 57. The lubricants of claim 56 wherein said number average molecular  
2 weight is about 1000 or less.

1 58. Lubricants for drilling fluid systems comprising a dispersion  
2 comprising lithium stearate dispersed in a carrier fluid.

1 59. The lubricants of claim 58 wherein said carrier comprises one or more



2 glycols.

1           60.     The lubricants of claim 58 wherein said carrier comprises one or more  
2 water soluble glycol ether.

1           61.     The lubricants of claim 60 wherein said water soluble glycol ether is  
2 selected from the group consisting of propylene glycol ethers, polyethylene glycol  
3 ethers and polypropylene glycol ethers having a number average molecular weight of  
4 about 2000 or less, and combinations thereof.

1           62.     The lubricants of claim 61 wherein said number average molecular  
2 weight is about 1000 or less.

1           63.     A drilling fluid system comprising a dispersion comprising at least one  
2 fatty acid soap comprising at least one alkali metal having a valence of 1, said fatty  
3 acid soap being dispersed in a continuous phase of said drilling fluid system in a  
4 quantity effective to form a coherent lubricating film on metal surfaces exposed to  
5 said dispersion.

1           64.     The drilling fluid system of claim 63 wherein said alkali metal is  
2 selected from the group consisting of lithium, sodium, potassium, rubidium, cesium,  
3 and combinations thereof.

1           65.     The drilling fluid system of claim 63 wherein said alkali metal are  
2 selected from the group consisting of lithium, sodium, potassium, and combinations  
3 thereof.

1           66.     The drilling fluid system of claim 63 wherein said fatty acid soap  
2 comprises monocarboxylic acid selected from the group consisting of saturated  
3 monocarboxylic acids and unsaturated monocarboxylic acids having the following  
4 general structure:

5                   R-COOH

6    wherein R is selected from the group consisting of alkyl groups and alkenyl groups  
7    having from about 10 to about 28 carbon atoms, said alkenyl groups comprising from  
8    about 0 to about 4 unsaturated carbon-carbon bonds.

1           67.    The drilling fluid system of claim 63 wherein said fatty acid soap  
2    comprises monocarboxylic acid selected from the group consisting of saturated  
3    monocarboxylic acid and unsaturated monocarboxylic acid having the following  
4    general structure:

5                   R-COOH

6    wherein R is selected from the group consisting of alkyl groups and alkenyl groups  
7    having from about 16 to about 24 carbon atoms, and said alkyl groups comprise from  
8    about 0 to about 2 unsaturated carbon-carbon bonds.

1           68.    The drilling fluid system of claim 63 wherein said fatty acid soap  
2    comprises fatty acid derived from a material selected from the group consisting of  
3    animal fats and vegetable fats.

1           69.    The drilling fluid system of claim 63 wherein said fatty acid soap  
2    comprises a fatty acid selected from the group consisting of tall oil fatty acids, stearic  
3    acids, palmitic acids, oleic acids, and fatty acids derived from castor oil, coconut oil,  
4    cotton-seed oil, rice oil, soybean oil, lard oil, rosin acids, tall oils, and combinations  
5    thereof.

1           70.    The drilling fluid system of claim 63 wherein said fatty acid soap  
2    comprises a fatty acid selected from the group consisting of stearic acid, palmitic acid,  
3    and myristic acid.

1           71.    The drilling fluid system of claim 63 wherein said quantity is from

2 about 0.01 to about 10 vol.% of said drilling fluid system.

1 72. The drilling fluid system of claim 63 wherein said quantity is from  
2 about 2 to about 5 vol.%.

1 73. The drilling fluid system of claim 70 wherein said quantity is from  
2 about 0.01 to about 10 vol.% of said drilling fluid system.

1 74. The drilling fluid system of claim 70 wherein said quantity is from  
2 about 2 to about 5 vol.%.

1 75. The drilling fluid system of claim 63 comprising one or more  
2 monomers comprising acrylamide.

1 76. The drilling fluid system of claim 75 where said one or more  
2 monomers comprising acrylamide comprise a combination of acrylamide alkyl alkane  
3 sulfonate(s) and dialkyl acrylamides, and combinations thereof.

1 77. The drilling fluid system of claim 75 wherein said one or more  
2 monomers comprising acrylamide comprise a combination of acrylamide methyl  
3 propane sulfonate (AMPS), dimethyl acryamide (DMA), and combination thereof.

1 78. The drilling fluid system of claim 75 comprising a combination of  
2 acrylamide methyl propane sulfonate (AMPS) and dimethyl acryamide (DMA).

1 79. A drilling fluid system comprising a dispersion comprising at least one  
2 fatty acid soap comprising lithium, said fatty acid soap being dispersed in a  
3 continuous phase of said fluid system in a quantity effective to form a coherent  
4 lubricating film on metal surfaces exposed to said dispersion.

1 80. The drilling fluid system of claim 79 wherein said fatty acid soap  
2 comprises monocarboxylic acid selected from the group consisting of saturated  
3 monocarboxylic acids and unsaturated monocarboxylic acids having the following

4    general structure:

5                   R-COOH

6    wherein R is selected from the group consisting of alkyl groups and alkenyl groups  
7    having from about 10 to about 28 carbon atoms, said alkenyl groups comprising from  
8    about 0 to about 4 unsaturated carbon-carbon bonds.

1           81.    The drilling fluid system of claim 79 wherein said fatty acid soap  
2    comprises monocarboxylic acid selected from the group consisting of saturated  
3    monocarboxylic acid and unsaturated monocarboxylic acid having the following  
4    general structure:

5                   R-COOH

6    wherein R is selected from the group consisting of alkyl groups and alkenyl groups  
7    having from about 16 to about 24 carbon atoms, and said alkyl groups comprise from  
8    about 0 to about 2 unsaturated carbon-carbon bonds.

1           82.    The drilling fluid system of claim 79 wherein said fatty acid soap  
2    comprises fatty acid derived from a material selected from the group consisting of  
3    animal fats and vegetable fats.

1           83.    The drilling fluid system of claim 79 wherein said fatty acid soap  
2    comprises a fatty acid selected from the group consisting of tall oil fatty acids, stearic  
3    acids, palmitic acids, oleic acids, and fatty acids derived from castor oil, coconut oil,  
4    cotton-seed oil, rice oil, soybean oil, lard oil, rosin acids, tall oils, and combinations  
5    thereof.

1           84.    The drilling fluid system of claim 79 wherein said fatty acid soap  
2    comprises a fatty acid selected from the group consisting of stearic acid, palmitic acid,  
3    and myristic acid.

1           85.     The drilling fluid system of claim 79 wherein said quantity is from  
2     about 0.01 to about 10 vol.% of said drilling fluid system.

1           86.     The drilling fluid system of claim 79 wherein said quantity is from  
2     about 2 to about 5 vol.%.

1           87.     The drilling fluid system of claim 84 wherein said quantity is from  
2     about 0.01 to about 10 vol.% of said drilling fluid system.

1           88.     The drilling fluid system of claim 84 wherein said quantity is from  
2     about 2 to about 5 vol.%.

1           89.     The drilling fluid system of claim 79 comprising one or more  
2     monomers comprising acrylamide.

1           90.     The drilling fluid system of claim 89 where said one or more  
2     monomers comprising acrylamide comprise a combination of acrylamide alkyl alkane  
3     sulfonate(s) and dialkyl acrylamides, and combinations thereof.

1           91.     The drilling fluid system of claim 89 wherein said one or more  
2     monomers comprising acrylamide comprise a combination of acrylamide methyl  
3     propane sulfonate (AMPS), dimethyl acryamide (DMA), and combinations thereof.

1           92.     The drilling fluid system of claim 89 comprising a combination of  
2     acrylamide methyl propane sulfonate (AMPS) and dimethyl acryamide (DMA).

1           93.     The drilling fluid system of claim 84 comprising one or more  
2     monomers comprising acrylamide.

1           94.     The drilling fluid system of claim 93 where said one or more  
2     monomers comprising acrylamide comprise a combination of acrylamide alkyl alkane  
3     sulfonate(s) and dialkyl acrylamides, and combinations thereof.

1           95.     The drilling fluid system of claim 93 wherein said one or more

2 monomers comprising acrylamide comprise a combination of acrylamide methyl  
3 propane sulfonate (AMPS), dimethyl acryamide (DMA), and combinations thereof.

1 96. The drilling fluid system of claim 93 comprising a combination of  
2 acrylamide methyl propane sulfonate (AMPS) and dimethyl acryamide (DMA).

1 97. A drilling fluid system comprising a dispersion comprising at least one  
2 fatty acid soap comprising stearate and at least one alkali metal having a valence of 1,  
3 said fatty acid soap being dispersed in a continuous phase of said drilling fluid system  
4 in a quantity effective to form a coherent lubricating film on metal surfaces exposed  
5 to said dispersion.

1 98. The drilling fluid system of claim 97 wherein said alkali metal is  
2 selected from the group consisting of lithium, sodium, potassium, rubidium, cesium,  
3 and combinations thereof.

1 99. The drilling fluid system of claim 97 wherein said alkali metal are  
2 selected from the group consisting of lithium, sodium, potassium, and combinations  
3 thereof.

1 100. The drilling fluid system of claim 97 wherein said quantity is from  
2 about 0.01 to about 10 vol.% of said drilling fluid system.

1 101. The drilling fluid system of claim 97 wherein said quantity is from  
2 about 2 to about 5 vol.%.

1 102. The drilling fluid system of claim 99 wherein said quantity is from  
2 about 0.01 to about 10 vol.% of said drilling fluid system.

1 103. The drilling fluid system of claim 99 wherein said quantity is from  
2 about 2 to about 5 vol.%.

1 104. The drilling fluid system of claim 97 comprising one or more

2 monomers comprising acrylamide.

1 105. The drilling fluid system of claim 104 comprising one or more  
2 monomers comprising acrylamide comprise a combination of acrylamide alkyl alkane  
3 sulfonate(s) and dialkyl acrylamides, and combinations thereof.

1 106. The drilling fluid system of claim 104 comprising said one or more  
2 monomers comprising acrylamide comprise a combination of acrylamide methyl  
3 propane sulfonate (AMPS), dimethyl acryamide (DMA), and combinations thereof.

1 107. The drilling fluid system of claim 104 comprising a combination of  
2 acrylamide methyl propane sulfonate (AMPS) and dimethyl acryamide (DMA).

1 108. The drilling fluid system of claim 104 comprising one or more  
2 monomers comprising acrylamide comprise a combination of acrylamide alkyl alkane  
3 sulfonate(s) and dialkyl acrylamides, and combinations thereof.

1 109. The drilling fluid system of claim 104 wherein said one or more  
2 monomers comprising acrylamide comprise a combination of acrylamide methyl  
3 propane sulfonate (AMPS), dimethyl acryamide (DMA), and combinations thereof.

1 110. The drilling fluid system of claim 104 comprising a combination of  
2 acrylamide methyl propane sulfonate (AMPS) and dimethyl acryamide (DMA).

1 111. A drilling fluid system comprising a dispersion comprising lithium  
2 stearate dispersed in a continuous phase of said drilling fluid system in a quantity  
3 effective to form a coherent lubricating film on metal surfaces exposed to said  
4 dispersion.

1 112. The drilling fluid system of claim 111 wherein said quantity is from  
2 about 0.01 to about 10 vol.% of said drilling fluid system.

1 113. The drilling fluid system of claim 111 wherein said quantity is from

2 about 2 to about 5 vol.%.

1 114. The drilling fluid system of claim 111 comprising one or more  
2 monomers comprising acrylamide.

1 115. The drilling fluid system of claim 114 comprising one or more  
2 monomers comprising acrylamide comprise a combination of acrylamide alkyl alkane  
3 sulfonate(s) and dialkyl acrylamides, and combinations thereof.

1 116. The drilling fluid system of claim 114 comprising said one or more  
2 monomers comprising acrylamide comprise a combination of acrylamide methyl  
3 propane sulfonate (AMPS), dimethyl acryamide (DMA), and combinations thereof.

1 117. The drilling fluid system of claim 114 comprising a combination of  
2 acrylamide methyl propane sulfonate (AMPS) and dimethyl acryamide (DMA).

1 118. The drilling fluid system of claim 114 comprising one or more  
2 monomers comprising acrylamide comprise a combination of acrylamide alkyl alkane  
3 sulfonate(s) and dialkyl acrylamides, and combinations thereof.

1 119. The drilling fluid system of claim 114 wherein said one or more  
2 monomers comprising acrylamide comprise a combination of acrylamide methyl  
3 propane sulfonate (AMPS), dimethyl acryamide (DMA), and combinations thereof.

1 120. The drilling fluid system of claim 114 comprising a combination of  
2 acrylamide methyl propane sulfonate (AMPS) and dimethyl acryamide (DMA).

1 121. A method for prolonging life of drilling equipment comprising  
2 exposing at least one metal surface of said drilling equipment to a dispersion  
3 comprising a quantity of at least one fatty acid soap comprising at least one alkali  
4 metal, said fatty acid soap being dispersed in a continuous phase of said fluid system,  
5 said quantity being effective to produce a coherent lubricating film on said metal



6 surface.

1 122. The method of claim 121 wherein said fatty acid soap is lithium

2 stearate.